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691783 – 14 in. Cut-off Saw, Tronçonneuse de 14 Po, Sierra Cercenante de 14 pulgadas_Rev. 5/24/10

Kawasaki

COMPONENT
COMPOSANT
COMPONENTE
#691783

14 IN. CUT-OFF SAW INSTRUCTION MANUAL

MANUEL D'UTILISATION POUR TRONÇONNEUSE DE 14 PO

MANUAL DE INSTRUCCIONES PARA LA SIERRA CERCENANTE DE 14 PULGADAS

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CONGRATULATIONS!

Thanks for choosing this product. At Alltrade, our aim is to provide you with quality products at an affordable price, and we want you to be totally satisfied with your product and our Customer Service. If any help and advice is needed, please contact us at 1-800-590-3723. Properly cared for, this product will give you many years of satisfaction.

INTENDED USE

This product is intended for consumer use only. This tool is not designed for professional use. The power cord should only be used in approved electrical outlets as described in this manual.

RECOGNIZE SAFETY SYMBOLS, WORDS AND LABELS

⚠ WARNING **READ AND UNDERSTAND ALL INSTRUCTIONS.** Failure to follow all instructions in this manual may result severe personal injury or death. Keep this manual and refer to it for Safety Instructions, Operating Procedures and Warranty.

The safety instructions provided in this manual are not intended to cover all possible conditions and practices that may occur when operating, maintaining and cleaning power equipment.

Always use common sense and pay particular attention to all the **DANGER**, **WARNING**, **CAUTION** and **NOTE** statements of this manual.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ DANGER **DANGER** indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING **WARNING** indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION **CAUTION** indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION **CAUTION** used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

NOTE **NOTE** provides additional information that is useful for proper use and maintenance of this tool. If a NOTE is indicated make sure it is fully understood.

IMPORTANT SAFEGUARDS

⚠ DANGER

People with electronic devices, such as pacemakers, should consult their physician(s) before using this product. Operation of electrical equipment in close proximity to a heart pacemaker could cause interference or failure of the pacemaker.

WARNING: Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks and cement and other masonry products, and arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

WORK AREA

⚠ WARNING

Keep your work area clean and well lit. Cluttered work benches and dark work areas may cause accidents or injury.

Do not operate power tools in explosive areas, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.

Keep bystanders, children and visitors away while operating a power tool. Distractions can cause you to lose control.

Make workshop kid proof with padlocks, master switches, or by removing starter keys.

ELECTRICAL SAFETY

⚠ WARNING

This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. Grounded tools must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way. Do not use any adaptor plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. If the tools should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.

Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is grounded.

Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

Do not abuse the cord. Never use the cord to carry the tool or pull the plug from an outlet. Keep the cord away from heat, oil, sharp edges, or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.

When operating the tool outside, use an outdoor extension cord marked "W-A" or "W."These cords are rated for outdoor use and reduce the risk of electric shock.

⚠ WARNING

Use proper extension cord. Make sure the extension cord being used is in good condition. If there are any cut or nicks (no matter how deep) in the insulation, **DO NOT** use that cord. Also, make sure the extension cord is heavy enough to carry the current needed by the saw (see RECOMMENDED SIZES OF EXTENSION CORDS). **DO NOT** use small "around-the-house" lamp extension cords. These cords can easily overheat and/or catch fire when used with power tools.

PERSONAL SAFETY

⚠ WARNING

Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.

Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.

Avoid accidental starting. Be sure switch is off before plugging in. Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents.

Remove adjusting keys or wrenches before turning the tool "ON". Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on. A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.

Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enable better control of the tool in unexpected situations.

Use safety equipment. Always wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

TOOL USE AND CARE

⚠ WARNING

Use clamps or other practical ways to secure and support the workpiece to a stable platform. Holding the work by hand or against your body is unstable and may lead to loss of control.

Do not force tool. Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.

⚠ WARNING

Do not use tool if the power switch does not turn it "ON" or "OFF". Any tool that cannot be controlled with the power switch is dangerous and must be replaced.

Disconnect the power cord plug from the power source before making any adjustments, changing accessories or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.

Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.

Maintain tools with care. Keep cutting tools sharp and clean. Properly maintained tools with a sharp cutting edge are less likely to bind and are easier to control.

Never stand on tool. Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.

Direction of feed. Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.

Never leave tool running unattended. Turn power off. Don't leave tool until it comes to a complete stop.

Check damaged parts. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function.

Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.

Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool may become hazardous when used on another tool.

GROUNDING INSTRUCTIONS

In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided - if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.

Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.

Repair or replace damaged or worn cord immediately.

This tool is intended for use on a circuit that has an outlet that looks like the one illustrated in Figure 1. The tool has a grounding plug that looks like the plug illustrated in Figure 1. A temporary adapter, which looks like the adapter illustrated in Figure 1, may be used to connect this plug to a 2-pole receptacle as shown in Figure 1 if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. The green-colored rigid ear, lug, and the like, extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box.

EXTENSION CORD USAGE

Extension cords are not recommended for use with this Cut-off Saw. Extension cords, if used, must be properly grounded with a 3-prong plug on one and a 3-hole receptacle on the other. **DO NOT use grounding adapters with an extension cord.** Extension cords must be UL listed and use a minimum of 16 A.W.G. wiring. Extension cords should never exceed 25 feet in length. Extension cords, that are too long, cause a voltage drop over the extra distance causing the motor to run slower with the possibility of causing damage to the motor. Using extension cords with smaller than the recommended wire gauge run the risk of getting too hot, melting, and/or causing fires. See table, **"Extension Cord Specifications",** on page 25.

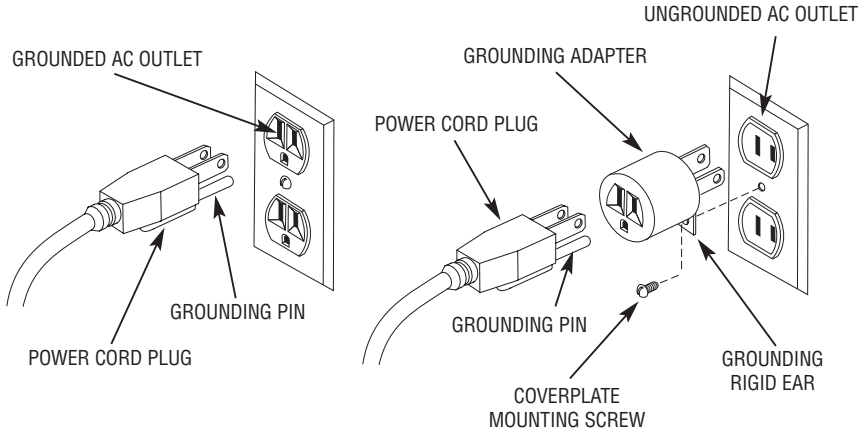


FIGURE 1. CONNECTING THE CUT -OFF SAW TO THE AC OUTLET

SERVICE

Tool service must be performed only by qualified repair personnel. Service or maintenance by unqualified personnel may result in a risk of injury.

When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electric shock or injury.

SPECIFIC SAFETY RULES AND/OR SYMBOLS

IMPORTANT SAFETY RULES FOR CUT-OFF SAWS

⚠ WARNING

Avoid prolonged contact with dust created by the Cut-off Saw. Allowing the dust to get into your mouth, eyes, or lay on your skin promotes the absorption of harmful chemicals into your body.

Read and understand all instructions. Failure to follow all instructions listed in this manual may result in property damage, damage to the tool, or serious personal injury or even death.

Unpack the Cut-off Saw completely from its carton. Inspect the saw and accessories and ensure they are free from defects or breakage due to shipping.

⚠ WARNING

Do not operate this Cut-off Saw until it is completely assembled according to the instructions in this manual. Failure to adhere to these instructions could result in serious and/or permanent injury to the operator.

Make sure approved eye protection is being worn and properly adjusted and secured at all times the Cut-off Saw is in use. Everyday eyeglasses only have impact-resistant lenses and **ARE NOT** safety glasses. Safety glasses must conform to ANSI Z87.1 requirements. Approved safety glasses and goggles will have Z87 printed or stamped on them. Also use face or dust mask if cutting operation is dusty.

Follow all wiring codes. Use only properly grounded three-hole grounded receptacles. **DO NOT** cut the third prong off the power cord. When using an extension cord, use only UL Listed extension cords with minimum 16 AWG wiring and a maximum length of 25 feet.

Keep bystanders, children, and visitors at a safe distance from the Cut-off Saw while it is in operation. Distractions can cause inadvertent misuse resulting in possible injury to the bystanders or to the operator.

Wear proper apparel. Do not wear loose clothing, gloves, neckties, rings, bracelets, or other apparel that could possibly become caught in the moving parts of the Cut-off Saw. When working in a shop environment around power tools, wear nonslip footwear. Use protective hair covering to contain long hair.

Keep the work area clean at all times. Cluttered areas around the Cut-off Saw can cause unexpected accidents if the debris comes in contact with the moving parts of the Cut-off Saw.

Don't use in dangerous environment. Maintain a proper work environment. Do not operate the Cut-off Saw in damp or wet locations or expose it to rain. Water can cause the electrical components to malfunction resulting in damage to the Cut-off Saw and/or serious injury or death to the operator.

Don't force the tool. The Cut-off Saw will do a better job and be safer if cutting operations are performed at the proper speeds as expressed in this manual.

Wear all necessary protective gear, including goggles, ear plugs and a dust mask.

Keep hands out of the path of the saw blade.

DO NOT operate saw without guards in place.

Do not stand directly in front of the Cut-off Saw. Loose fragments could fly off at high speeds possibly causing injury.

⚠ WARNING

Properly support extra-long or extra-wide workpieces. Workpieces that are too long or too wide can tip and cause the blade to seize resulting in a sudden kickback motion resulting in damage to the workpiece and Cut-off Saw as well as possible severe injury to the operator.

Do not perform any operation freehand. The workpiece must be tight against the fence to prevent the piece from moving while it is being cut. Keep the area between the saw and the workpiece free of debris. Clamp the workpiece if necessary.

NEVER reach around the blade.

Turn tool off and wait for saw blade to stop before moving workpiece or changing settings.

Use only abrasive cutting wheels that are designed for the various speeds of this Cut-off Saw. The abrasive cutting wheels should have an arbor size 5/8 inch OR SMALLER. Unsuitable cutting wheels can break without warning throwing fragments outward at high speeds possibly causing severe injuries.

Release lower guard retraction mechanism after each cut and before moving or removing the workpiece.

Always keep arms, hands, and fingers away from the workpiece while it is on the table and the Cut-off Saw is turned on. Severe injury could result.

Always clamp the workpiece firmly against the work table. Never attempt to hold the workpiece by hand. The blade can seize in the workpiece causing it to spin rapidly. This will cause loss of control of the workpiece resulting in severe injuries or damage to the workpiece and Cut-off Saw.

DO NOT cut materials that could shatter or grab the blade.

Make sure the blade is loaded correctly. The arrow on the blade should point in the same direction as the arrow on the upper blade cover. Blade teeth should point downward.

Reduce the risk of unintentional starting. Ensure the **"ON/OFF"** switch is set to the **"OFF"** position before plugging the power cord into the AC outlet.

Make sure the blade is properly aligned. Unplug the cord and use your hand to spin the blade. The blade should spin smoothly without making contact with any other part of the saw. If there is contact, realign the blade before using the saw.

Make sure the blade and blade guards are free from debris.

Make sure the blade guards are properly installed.

⚠ WARNING

Check all screws and fastenings before use. Make sure the blade screw is tight and secure.

Cut only one piece of material at a time. Leave enough room for the waste piece to move once it is cut or it may become wedged against the blade and create a hazard.

Be extremely careful when cutting pieces that are very large, very small or oddly shaped. Make sure all oddly shaped pieces are held securely so they cannot slip or cause kickback. Moulding should be clamped down flat before cutting.

DO NOT let the workpiece sag or bend. If necessary, use tables or sawhorses to support the piece while cutting.

NEVER let your fingers get closer than 4 inches to the blade. You cannot cut any workpiece that requires you to get your hand closer than 4 inches to the blade.

NEVER allow bystanders behind the saw or close enough to the workpiece to be hit by flying debris.

Round material such as dowel rods or tubing may roll when cut. Clamp securely before cutting.

Check that the workpiece is free of nails or other foreign objects.

Make sure ventilation slots are clear of dust or debris.

Mount the saw to a work bench or table before use to prevent unexpected saw movement. If the saw moves during use, it could cause injury to the operator and/or damage to the workpiece.

NEVER lubricate the blade while it is in motion.

Before moving the saw, make sure the cord is unplugged and the handle is locked in the down position. To avoid back injury, do not attempt to lift the saw by yourself.

Give the saw a test run before cutting. If the tool vibrates excessively or makes unusual noises, stop operating the saw immediately and correct the problem.

Never hold or clamp the waste portion of the material. Cutoff pieces must be free to move aside or they may wedge against the blade and cause injury to the operator or damage to the workpiece.

If the blade becomes clogged with debris, release the trigger switch and let the blade come to a complete stop before unplugging the tool and removing the debris.

⚠ WARNING

After finishing a cut, release the trigger switch and allow the blade to come to a complete stop before raising the handle.

Make sure the blade is up to speed before lowering it into the workpiece.

Thoroughly clean the Cut-off Saw before changing types of workpieces. Combining wood and metal dust can result in an explosion or fire. **CONSULT EXPERT ADVICE BEFORE CUTTING IN WORKPIECES MADE OF MAGNESIUM.** The friction generated by the abrasive wheel could cause the magnesium to ignite resulting in a very intense fire that could cause severe burns to the operator and/or seriously damage the Cut-off saw.

Magnesium fires cannot be extinguished using fire extinguisher with an "A", "B" or "C" rating. Only a class "D" extinguisher (for flammable metals) should be used. Do not attempt to extinguish a magnesium fire with water or other liquid. The result will be an explosive reaction that could result in severe burns or death to the operator.

Do not use the side of the abrasive wheel as a deburring grinder. This will substantially weaken the wheel causing an unsafe condition. The wheel could come apart sending fragments in all directions. Failure to adhere to this warning could result in serious damage to the tool and/or serious injury or even death to the operator.

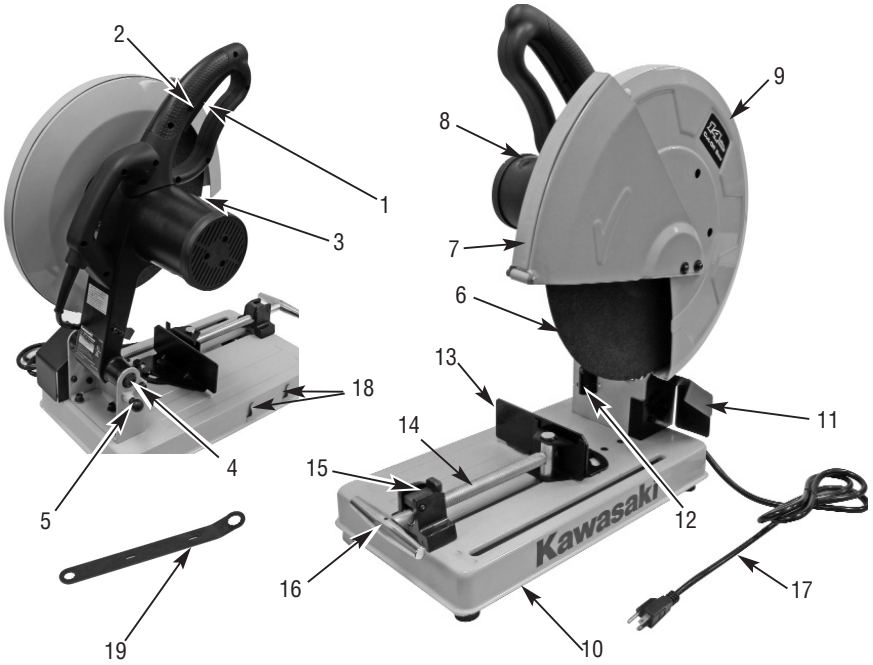
Do not alter in any way, shape, or form the upper and lower guards around the abrasive cutting wheel. These guards are there to protect the operator against unexpected conditions, such as breaking, of the cutting wheel. Any modification of these guards voids the warranties set forth by the manufacturer.

SYMBOLS

IMPORTANT: Some of the following symbols may be used on your tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

SYMBOL	NAME	EXPLANATION
V	Volts	Voltage (Potential)
A	Amperes	Current
L	Liters	Volume
Kg	Kilograms	Weight
~	Alternating Current	Type of Current
⎓ or d.c.	Direct Current	Type of Current
⎓~ or a.c.	Alternating or Direct Current	Type of Current
⏚	Earthing Terminal	Grounding Terminal
⧈	Class II Construction	Denotes Double Insulation
h	Hours	Time
min	Minutes	Time
s	Seconds	Time
ϕ	Diameter	Size of Drill Bits, Grinding Wheels, etc.
n_0	No load speed	No-load Rotational Speed
.../min	Revolutions per Minute	Revolutions, Surface Speed, Strokes, etc. per Minute
psi	Pounds per square inch	Pressure
1,2,3, …	Ring Selector Settings	Speed, Torque or Position Setting

FUNCTIONAL DESCRIPTION



CONTROLS AND COMPONENTS:

1. Trigger Switch
2. Safety Button
3. Arbor Lock Lever
4. Arm Stop
5. Arm Release Knob
6. Abrasive Wheel
7. Lower Guard
8. Motor Brushes
9. Upper Guard
10. Base
11. Rear Spark Shield
12. Depth Cutting Adjustment Screw
13. Fence
14. Adjustable Vise
15. Quick Release Lever
16. Adjustable Vise Handle
17. Grounded Power Cord
18. Wheel Wrench Holder

ACCESSORIES:

19. Wheel Wrench

ASSEMBLY

⚠ WARNING DO NOT connect the Cut-off saw to the AC power source until the receptacle is properly grounded. It is not recommended that an extension cord be used, but if one is necessary, follow the instructions below.

The 14 in. Cut-off saw comes pre-assembled from the factory and needs no assembly.

TOOLS REQUIRED FOR ASSEMBLY

The tools are supplied by the customer.

It is highly recommended that the 14 in. Cut-off saw be securely mounted to a tool stand. This is to prevent excessive vibration during use. Mount the Cut-off saw to the tool stand by:

1. Most tool stands have pre-drilled holes to accommodate a variety of tools.
2. If the tool stand does not have an exact match for the holes, try to align the tool base with as many pre-drilled holes as possible. Mark and drill new holes for mounts that have missing holes.
3. Remove the rubber feet screws. Insert three 1/4 in. X 20 screws and washers through the underside of the tool stand and up through the rubber feet on the base of the Cut-off saw. The length of the screws should be 1 in. (25mm).
4. Tighten the screws securely.

ADJUSTING THE ABRASIVE CUT-OFF SAW

⚠ WARNING **Disconnect the abrasive Cut-off saw from the AC power source eliminating any accidental starting of the motor.**

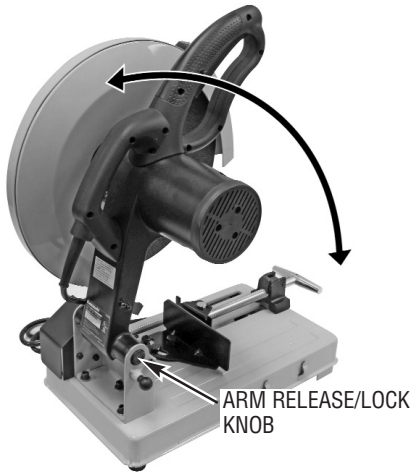


FIGURE 2. UNLOCKING THE CUT-OFF SAW

TO CARRY THE CUT-OFF SAW:
Fold down arm to base and push in the arm release to lock.

TO UNLOCK THE CUT-OFF SAW:
To unlock tool and raise arm, depress arm slightly and pull out motor arm release. The motor arm will pivot upward. See Figure 2.

REMOVING AND INSTALLING THE ABRASIVE CUTTING WHEEL

⚠ WARNING **To avoid any accidental starting of the cut-off saw, unplug the saw from the AC power source.**

1. Pull out the arm release knob to unlock the saw arm and raise the arm to its full open position. Then raise and rest the lower guard at its highest position.
2. Push in the arbor shaft lock lever and rotate the abrasive wheel until the arbor lock engages locking the wheel in place.
3. Hold the arbor shaft lock in place and use the wheel wrench (provided), remove the arbor hex head screw by turning it counterclockwise. Also, remove the washer, outer flange and abrasive wheel.
4. Mount the new abrasive wheel securely over the oblong arbor.

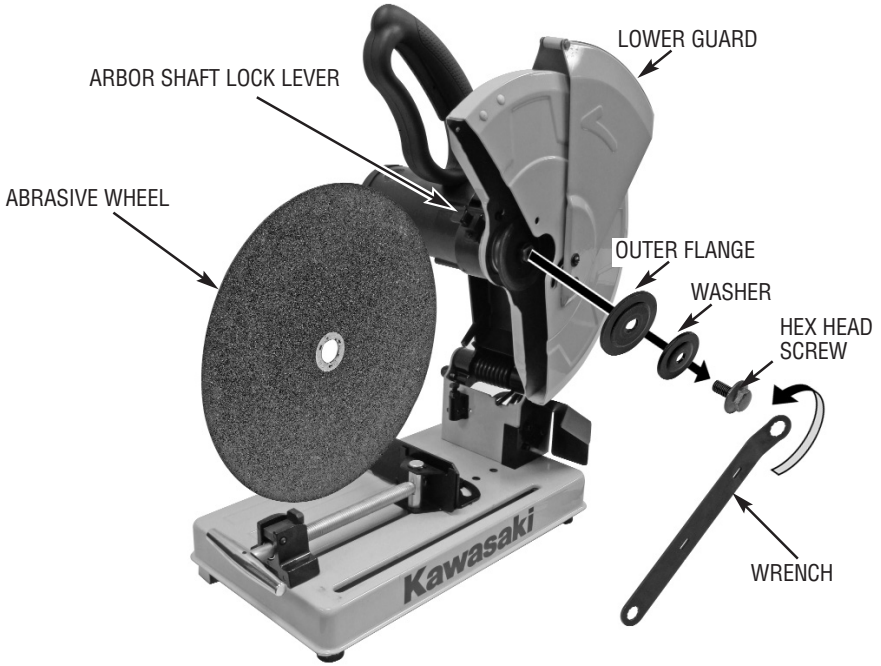


FIGURE 3. REMOVING/INSTALLING THE CUTTING WHEEL

5. Align the oblong hole of the inner flange with the oblong arbor and mount the flange on the arbor and securely against the wheel.
6. Place the hex head screw, washer, outer flange through the threaded arbor hole and finger tighten.
7. Holding the new abrasive wheel in one hand, use the wheel wrench, turn the hex head screw clockwise to tighten.

NOTE: Do not overtighten the screw. Overtightening the screw can crack the wheel.

⚠ WARNING

Do not over tighten the hex head screw. Over tightening the screw can cause the abrasive wheel to crack resulting in premature failure. This could cause the abrasive wheel to break and fly off the arbor shaft when the trigger is engaged. Failure to adhere to this Warning could cause damage to the Cut-off Saw and severe injury or even death to the operator.

Use only a 14 in. diameter with 1 in. bore abrasive Cut-off wheel rated to a minimum 4000 RPM. Cut-off wheels that do not match the mounting hardware, exceed a maximum 4200 RPM or fall below the minimum 4000 RPM may sustain premature wear or breakage and fly off the Cut-off Saw or run eccentrically resulting in a loss of control. Failure to adhere to this Warning could cause damage to the Cut-off Saw and severe injury or even death to the operator.

ADJUSTING THE WORK VISE

The work vise is located on the base of the Cut-off Saw. The vise is made up of two parts: (1) a stationary fence which can be loosened and rotated from -30° to +45° degrees and (2) a movable clamp with an adjustable screw handle and a quick-release lock.

The work vise will also move toward the rear of the base to allow wider workpieces to be cut. To set up and adjust the work vise, follow the directions below. See Figure 4.

Adjusting for the angle (-30° to +45°):

1. Using the wheel wrench, turn the two fence mounting hex head screws counterclockwise to loosen.
2. Rotate the work vise fence to the desired the angle by aligning the gauge on the vise base with the indicator groove in the Cut-off Saw base. Securely tighten both screws.

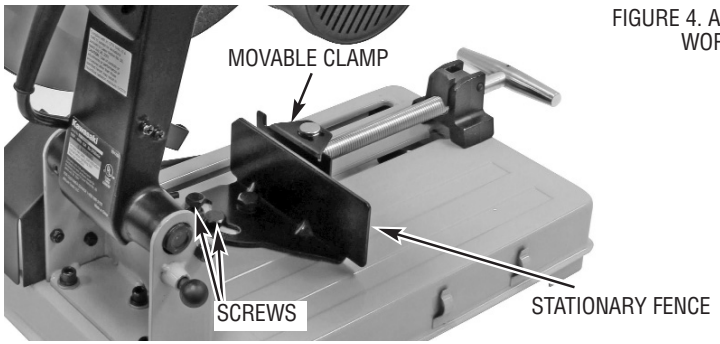


FIGURE 4. ADJUSTING THE WORK VISE

⚠ CAUTION **The angled cut settings on the fence base are only approximate settings. Always check the accuracy of angled cut settings using a protractor or bevel gauge.**

Adjusting for the width:

1. Using the wheel wrench, turn the two hex head screws counterclockwise and remove them.
2. Slide the stationary portion of the work vise over the last threaded hole in the Cut-off Saw base.
3. Install one of the hex head screws into the hole. DO NOT TIGHTEN AT THIS TIME.
4. Align the second hole of the work vise base with another threaded hole in the Cut-off base.
5. Install the second hex head screw into the hole. Securely tighten both screws.

USING THE QUICK LOCK LEVER

The work vise is equipped with a threaded screw clamp and handle for tightening the vise. The clamp is also equipped with a quick lock/release mechanism as standard equipment. The clamp can be tightened against the workpiece in the vise by turning the handle clockwise and loosened by turning the handle counterclockwise. To use the quick lock/release mechanism, follow the steps below. See Figure 5.

1. Release the tension on the screw clamp by turning the handle counterclockwise for 1/2 to 1 full turn.
2. Lift the quick lock lever up and pull back the screw clamp handle sliding the vise open.
3. To tighten, lift the quick lock lever up and push the screw clamp forward against the workpiece.
4. Push the quick lock lever down into release mechanism.
5. Turn the screw clamp clockwise to securely tighten the workpiece in the vise.

FIGURE 5. USING THE QUICK LOCK LEVER

OPERATING INSTRUCTIONS FOR THE CUT-OFF SAW

⚠ WARNING Do not use the Cut-off saw if the power cord (or extension cord, if used) is worn, cut, or damaged in any other way. A worn or damaged power cord must be replaced immediately. Contact Alltrade Customer Service to obtain the proper replacement power cord. Failure to adhere to this warning could result in damage to the Cut-off saw motor, fire, or severe electrical shock or even death to the operator.

USING THE CUT-OFF SAW

⚠ WARNING Disconnect the abrasive Cut-off saw from the AC power source eliminating any accidental starting of the motor.

Before using the saw, ensure the wheel has cooled down from any previous actions. Wear approved leather work gloves when handling the various workpieces and to protect the hands from a hot Cut-off wheel.

FOLLOW THE INSTRUCTIONS BELOW TO OPERATE THE ABRASIVE CUT-OFF SAW.

1. Adjust the angle of cut. See ADJUSTING THE WORK VISE on pages 17-18.
2. Place the workpiece inside the vise and turn the vise handle clockwise to securely tighten the workpiece in the vise.
3. Plug the power cord into an approved GROUNDED AC receptacle.
4. Grip the handle and place thumb over the safety button.

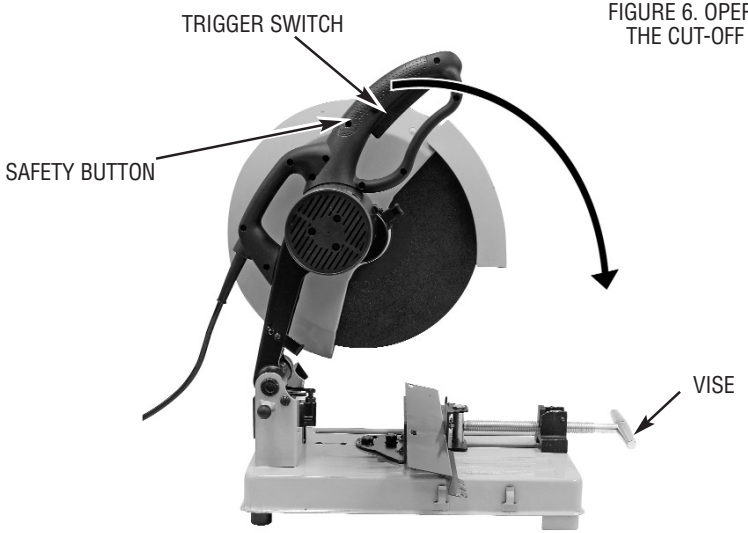


FIGURE 6. OPERATING THE CUT-OFF SAW

5. Press the safety button with thumb. Squeeze the trigger switch. Release the safety button.
6. Allow the Cut-off saw to spin up to full speed.
7. Slowly pull down on the handle while continuing to squeeze trigger switch. Lower the Cut-off wheel slowly into the workpiece.
8. Ensure the abrasive Cut-off wheel cuts completely through the workpiece. Should the Cut-off wheel fail to pass through the workpiece, raise the handle until it clears. Turn off the Cut-off saw and remove the power cord from the AC receptacle. Refer to SETTING THE CUT-OFF WHEEL DEPTH GAUGE.
9. Once the cut is completed, turn off the Cut-off saw by releasing the trigger switch. This also allows the safety button to return to the “OFF” position.
10. Unplug the Cut-off saw from the AC power source. Ensure the abrasive wheel has stopped spinning before removing the workpiece.

11. Use a dry, soft bristle, brush or an air hose and clean any debris remaining from the cut.

12. Lock down the Cut-off saw with the arm release knob on the side of the cut-off saw. Store the Cut-off saw in a dry safe location.

SETTING THE CUT-OFF WHEEL DEPTH GAUGE

The cutting depth of the abrasive Cut-off wheel can be set using the depth cut adjustment screw. See Figure 7.

1. Using a wrench (not provided), loosen the jam nut.
2. Adjust the screw counterclockwise to increase the depth of cut. Tighten the jam nut.
3. Adjust the jam nut and turn the screw clockwise to decrease the depth of cut. Tighten the jam nut.

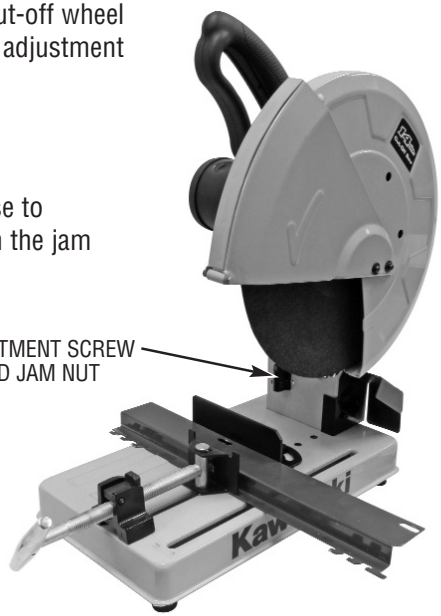


FIGURE 7. SETTING THE DEPTH GAUGE

⚠ CAUTION **For cutting sections of the workpiece completely off, ensure the depth adjustment screw is set allowing the abrasive Cut-off wheel to go beyond the base surface into the groove provided.**

MAINTENANCE AND CLEANING

⚠ WARNING

Disconnect the abrasive Cut-off saw from the AC power source eliminating any accidental starting of the motor.

Before using the abrasive Cut-off saw, a thorough inspection should be made. Check for the following:

1. Loose screws
2. Misalignment or binding of moving parts
3. Cracked or broken parts
4. Damaged electrical wiring
5. Cracked, chipped or bent Cut-off wheel

If any abnormal sounds are heard or abnormal smells or smoke is visible when Cut-off saw is started, DISCONTINUE USE IMMEDIATELY, TURN OFF SAW AND REMOVE IT FROM THE AC POWER SOURCE. These could be warning signs of imminent DANGER. DO NOT USE CUT-OFF SAW IF ANY DAMAGE IS SUSPECTED. Failure to adhere to this WARNING could result in damage to the tool or severe injury or death to the operator.

CLEANING

Daily: Using a soft-bristled brush, cloth, or shop vacuum, remove all clippings, dust, or other debris around the Cut-off saw. Follow the cleaning by using premium light-weight machine oil and lubricate all movable parts.

⚠ WARNING **DO NOT USE MACHINE OIL ON THE ABRASIVE CUT-OFF WHEEL. Machine oil will absorb into the abrasive material making up the wheel and potentially weakening it causing it to break. Should the Cut-off wheel break while it is in motion, pieces could fly off at high speed damaging the Cut-off saw, the workpiece or resulting in serious injury or even death to the operator.**

MAINTENANCE

The abrasive Cut-off saw is virtually maintenance free. Closed-type, grease-sealed ball bearings are used throughout the Cut-off saw. These bearings are packed with grease at the factory and should last the life of the Cut-off saw. The only required maintenance is covered in the CLEANING Section above. If this particular model Cut-off saw is equipped with replaceable carbon brushes on the motor, there may become a time they need replacing. See Figure 8.

TO REPLACE THE CARBON BRUSHES:

1. Locate the brushes. They should be both sides of the motor housing at 180˚ degrees apart.
2. Use a slotted blade screwdriver and turn the brush caps counterclockwise.
3. Remove the caps, tension springs, and carbon brushes.
4. Place new carbon brushes into the openings.
5. Place the curved end of the brush into opening first, followed by a tension spring.
6. Insert the cap and, using a slotted blade screwdriver, tighten the caps by turning clockwise.

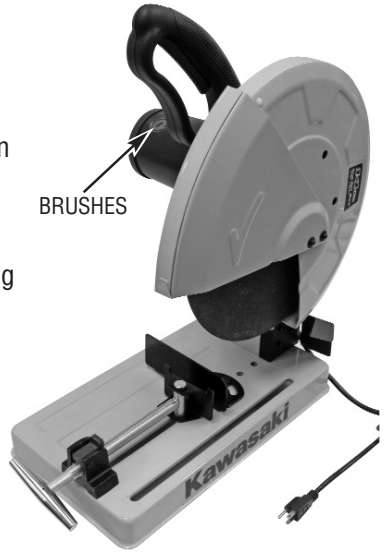


FIGURE 8. REPLACING CARBON BRUSHES

Should the carbon brushes be worn more that 1/2 the original size, replace both brushes. Ensure the springs operate freely and the tension doesn't cause armature of the motor to drag or make noise.

NOTE New carbon brushes may arc or spark until they wear slightly and conform to the armature of the motor. This is a normal occurrence.

TROUBLESHOOTING

⚠ WARNING To avoid any accidental starting of the saw during troubleshooting process, unplug the tool from the AC power source.

Should the motor fail to run, for any reason, call Alltrade Customer Service.

TROUBLE	PROBABLE CAUSE	SOLUTION
Cut-off saw will not start	1. Tool not plugged in 2. Tripped circuit breaker or blown fuse 3. Power cord damaged 4. Worn or damaged carbon brushes	1. Plug in Cut-off saw. 2. Reset circuit breaker or replace fuse. 3. Have power cord replaced by authorized service center. 4. Replace carbon brushes.
Cut-off saw makes unsatisfactory cuts	1. Glazed cutting wheel 2. Workpiece incorrectly clamped in vise	1. Dress the wheel or replace with a new one. 2. Securely clamp and support workpiece.
Cut-off wheel does not come up to speed	1. Extension cord too light or too long 2. Low voltage from AC power source	1. Replace Cord. 2. Consult certified electrical contractor.
Cut-off saw vibrates excessively during cut	1. Saw not mounted securely to workbench 2. Damaged Cut-off wheel 3. Workpiece incorrectly clamped in vise	1. Tighten all mounting hardware. 2. Replace Cut-off wheel. 3. Clamp workpiece securely in vise.
Cut-off saw does not make accurate cuts	1. Fence improperly adjusted 2. Cut-off wheel not square to fence 3. Excessive force used to make cut 4. Workpiece moving	1. Inspect and adjust fence. See Section on page 17-18. 2. Inspect and adjust wheel. 3. Reduce pressure on cuts - let wheel do cutting. 4. Clamp workpiece securely in vise.
Material moves during cutting	1. Fence slipping or workpiece incorrectly clamped 2. Vise not securely clamping workpiece 3. Excessive force used to make cut	1. Tighten fence. See Section on page 17-18. 2. Clamp workpiece securely in vise. 3. Reduce pressure on cuts - let wheel do cutting.

ACCESSORIES

Optional accessories for the Cut-off saw can include wire-brush wheels that can be used for cleaning and layered cloth wheels that can be used for polishing and buffing. Contact **ALLTRADE Customer Service** at **1-800-590-3723 (toll free)** to find out what accessories are available for the Cut-off saw.

⚠ WARNING **Only use accessories that are designed to fit your particular Cut-off saw. These accessories should be specifically labeled to match the speed and arbor size of the grinder. Failure to use the proper accessories could result in property damage, damage to the grinder, and serious personal injury to the operator.**

Always attach grounded (3-prong) extension cords to grounded (3-hole) outlets.

If the Cut-off saw must be used outside, use an extension cord labeled "W-A" or "W." These extension cords are rated for outdoor use and reduce the chances of electrical shock.

If you must use an extension cord, be sure that the gauge is large enough to carry the amount of current necessary for your power tool. If not, your tool may experience a loss of power, excessive voltage drop or overheating. The smaller the gauge number, the heavier the cord (see table below).

RECOMMENDED SIZES OF EXTENSION CORDS 120 VOLT AC 60 HZ TOOLS

CURRENT RATING IN AMPS		CONDUCTOR SIZE IN A.W.G.			
MORE THAN	NOT MORE THAN	25 FT.	50 FT.	100 FT.	150 FT.
0	6	18	16	16	14
6	10	18	16	14	12
10	12	16	16	14	12
12	16	14	12	NOT RECOMMENDED	

SPECIFICATIONS

SPECIFICATIONS	
Voltage	120V ~ 60 Hz
Rated Current	15.0A
No Load Speed	2800 RPM
Wheel	14 in. X 1/8 in. X 1 in. Bore
Saw Arbor Diameter	7/8 in.
Max Capacity (Round)	5 in.
Max Capacity (Square)	5 in. X 6 in.

OTHER CONSUMER DO-IT-YOURSELF (DIY) TOOLS

Alltrade offers a full range of Kawasaki tools that make DIY jobs easy. If you would like further information on the following products, please contact Alltrade Customer Service Department at 1-800-590-3723.

Cordless Drills/Screwdrivers

Impact Wrenches

Sanders

Jigsaws

Circular Saws

Angle Grinders

Reciprocating Saws

Routers

Rotary Tools

Corded and Cordless Multi-Purpose Tools

Wide Range of Accessories and more

3 YEAR LIMITED WARRANTY

Express and Exclusive Limited Warranty to Original Retail Buyer
Alltrade Tools LLC (hereinafter "Alltrade") expressly warrants to the original retail purchaser of the accompanying KAWASAKI power tool and no one else all parts of the product (except those parts referred to below which are specifically excluded from such warranty (see Exclusions)) to be free from defects in materials and workmanship for a period of three years from original date of purchase, except that such warranty with regard to the battery shall be for a period of two years from original date of purchase, unless the tool is used for commercial or rental purposes.

SPECIAL WARRANTY NOTE FOR COMMERCIAL OR RENTAL USE: The above warranty for this Kawasaki power tool, including the battery, shall be effective for only 90 days from the original date of purchase if this tool is used for any **COMMERCIAL OR RENTAL PURPOSE.**

The date of purchase shall be the date of shipment to the original purchaser, or the date the original purchaser took possession, custody or control of the product, whichever occurred first. This warranty shall be null and void if the product or any component thereof is modified or altered. This warranty does not apply to any other product and/or component thereof manufactured or distributed by Alltrade,

and does not apply to products and/or components thereof designed, manufactured and/or assembled by others, for which Alltrade makes no warranties whatsoever. **THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.**

Warranty Performance

By purchasing the product, purchaser expressly acknowledges and agrees that their sole and exclusive remedy under this warranty shall be strictly limited to the repair or replacement of any covered nonconforming items or parts thereof provided that any such nonconforming item and/or part is promptly returned to Alltrade's facility postage pre-paid and insured (address: ALLTRADE Warranty Claims & Repair, 1431 Via Plata, Long Beach, CA 90810, Attn: Customer Service #1-800-590-3723) within the applicable warranty period, with a written request by purchaser that Alltrade repair and/or replace the nonconforming item and/or part. We recommend that you keep the original product packaging in the event you need to ship the unit. We suggest the package be insured against loss or in transit damage. When sending your product include your name, address, phone number, dated proof of purchase (or copy), and a statement about the nature of problem. Warranty coverage is conditioned upon purchaser furnishing Alltrade with adequate written proof that they are the original purchaser and of the original purchase date. Parts returned, freight prepaid and insured, to Alltrade's facility (see above address) will be inspected and, at Alltrade's option, repaired and/or replaced free of charge if found to be defective and subject to warranty. Alltrade retains the sole discretion to determine whether any item or part is nonconforming and, if so, whether the item and/or part will be repaired and/or replaced. If the unit is repaired, new or reconditioned replacement parts may be used. If Alltrade chooses to replace the product, it may replace it with a new or reconditioned one of the same or comparable design. The repaired or replaced unit will be warranted under the terms of the remainder of the warranty period. Typically, a defective product that is returned within the first 30 days after the purchase date will be replaced; for items returned after the first 30 days and within the warranty period, covered defective parts not subject to normal wear and tear or other exclusions will be repaired or replaced, at Alltrade's option. During the warranty period, Alltrade will be responsible for the return shipping charges. Alltrade's repair and/or replacement of any nonconforming item and/or part thereof shall constitute fulfillment of all obligations to the purchaser. Alltrade shall not be responsible or liable for any expense, including freight charges, or repairs made outside Alltrade's facility, unless expressly agreed to by Alltrade in writing. Under no circumstances shall Alltrade bear any responsibility for loss of the unit, loss of time or rental, inconvenience, commercial loss or consequential damages.

Exclusions

This warranty does not cover parts damaged due to normal wear, abnormal

conditions, misapplication, misuse, abuse, accidents, operation at other than recommended pressures or temperatures, improper storage or freight damage. Parts damaged or worn by operation in dusty environments are not warranted. Failure to follow recommended operating and maintenance procedures also voids warranty.

This limited warranty does not apply to accessory items such as drill bits, screwdriving bits, circular saw blades, jigsaw blades, grinding wheels, sanding sheets and other related items.

DAMAGE TO THE PRODUCT RESULTING FROM TAMPERING, ACCIDENT, ABUSE, NEGLIGENCE, FAILURE TO FOLLOW INSTRUCTIONS, UNAUTHORIZED REPAIRS OR ALTERATIONS, DAMAGE WHILE IN TRANSIT TO OUR SERVICE FACILITY, USE OF UNAPPROVED OR IMPROPER ATTACHMENTS OR ACCESSORIES, COMMERCIAL AND RENTAL APPLICATIONS OR OTHER CAUSES UNRELATED TO PROBLEMS WITH MATERIAL OR WORKMANSHIP ARE NOT COVERED BY THIS WARRANTY.

Alltrade will not be liable for the following: labor charges, loss or damage resulting from improper operation, maintenance or repairs made by other persons; pre-delivery services such as assembly, oil or lubricants, and adjustment; maintenance services that are normally required to maintain the product.

The use of other than genuine Alltrade Repair Parts will void warranty.

Warranty Disclaimers

EXCLUSION AND DISCLAIMER OF ALL OTHER EXPRESS WARRANTIES, GUARANTIES AND/OR REPRESENTATIONS. EXCEPT FOR THE LIMITED WARRANTY PROVIDED ABOVE, ALL OTHER EXPRESS WARRANTIES, GUARANTIES AND/OR REPRESENTATIONS BY ALLTRADE AND/OR ITS REPRESENTATIVE(S) REGARDING THE DESIGN, MANUFACTURE, PURCHASE, USE AND/OR OPERATION OF THE PRODUCT OR ANY COMPONENT THEREOF SOLD HEREUNDER, REGARDLESS OF WHETHER ANY SUCH WARRANTY, GUARANTY AND/OR REPRESENTATION, WRITTEN OR ORAL, ARISES BY OPERATION OF LAW AND/OR EQUITY AND/OR BY ANY ACT OR OMISSION OF ALLTRADE AND/OR ITS REPRESENTATIVE(S), OR THE BUYER, ARE HEREBY EXPRESSLY EXCLUDED AND DISCLAIMED BY ALLTRADE AND/OR ITS REPRESENTATIVES. PURCHASER KNOWINGLY AND WILLINGLY WAIVES ANY AND ALL SUCH WARRANTIES AND RIGHTS, CLAIMS AND/OR CAUSES OF ACTION ARISING THEREFROM OR BASED THEREON. PURCHASER'S SOLE AND EXCLUSIVE REMEDY IS AS STATED ABOVE.

EXCLUSION AND DISCLAIMER OF ALL IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. NO WARRANTY, ORAL OR WRITTEN, OTHER THAN THE ABOVE

WARRANTY IS MADE WITH REGARD TO THIS PRODUCT. ALL EXPRESS AND/OR IMPLIED WARRANTIES, GUARANTIES AND/OR REPRESENTATIONS BY ALLTRADE AND/OR ITS REPRESENTATIVE(S) REGARDING THE DESIGN, MANUFACTURE, PURCHASE, USE AND/OR OPERATION OF THE PRODUCT OR ANY COMPONENT THEREOF SOLD HEREUNDER, REGARDLESS OF WHETHER ANY SUCH WARRANTY, GUARANTY AND/OR REPRESENTATION, WRITTEN OR ORAL, ARISES BY OPERATION OF LAW AND/OR EQUITY AND/OR BY ANY ACT OR OMISSION OF ALLTRADE AND/OR ITS REPRESENTATIVE(S), OR THE PURCHASER, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXPRESSLY EXCLUDED AND DISCLAIMED BY ALLTRADE AND/OR ITS REPRESENTATIVES. PURCHASER KNOWINGLY AND WILLINGLY WAIVES ANY AND ALL SUCH WARRANTIES AND RIGHTS, CLAIMS AND/OR CAUSES OF ACTION ARISING THEREFROM OR BASED THEREON. PURCHASER'S SOLE AND EXCLUSIVE REMEDY IS AS STATED ABOVE.

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IN NO EVENT SHALL ALLTRADE AND/OR ITS REPRESENTATIVE(S) BE LIABLE FOR INDIRECT, INCIDENTAL, SPECIAL AND/OR CONSEQUENTIAL DAMAGES OF ANY KIND ARISING OUT OF OR RELATED TO, DIRECTLY OR INDIRECTLY, ANY BREACH OF ANY PROVISION OF ANY AGREEMENT BETWEEN ALLTRADE AND/OR ITS REPRESENTATIVE(S) AND PURCHASER, ANY WARRANTY HEREUNDER, AND/OR THE EXISTENCE, DESIGN, MANUFACTURE, PURCHASE, USE AND/OR OPERATION OF ANY ITEM(S) SOLD HEREUNDER EVEN IF ALLTRADE AND/OR ITS REPRESENTATIVE(S) HAS BEEN ADVISED OF THE POSSIBILITY OF ANY SUCH DAMAGES. IN NO EVENT, WHETHER AS A RESULT OF A BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE, SHALL ALLTRADE'S AND/OR ITS REPRESENTATIVE(S)' LIABILITY EXCEED THE PRICE OF THE PRODUCT. ANY AND ALL LIABILITY CONNECTED WITH THE USE OF THIS PRODUCT SHALL TERMINATE UPON THE EXPIRATION OF THE WARRANTY PERIODS SPECIFIED ABOVE.

Limitations on Warranty Disclaimers

Some states do not allow limitations on how long an implied warranty lasts and some states do not allow the exclusion or limitation of the incidental or consequential damages, so part or all of the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

If your product is not covered by this warranty, please call our Customer Service Department toll free at 1-800-590-3723 for general repair information and charges.